

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188 Exp. Date: Jun 30, 1986	
1. TITLE Contractor's Progress, Status and Management Report		2. IDENTIFICATION NUMBER DI-MGMT-80227		
3. DESCRIPTION/PURPOSE 3.1 The Contractor's Progress, Status and Management Report indicates the progress of work and the status of the program and of the assigned tasks, reports costs, and informs of existing or potential problem areas.				
4. APPROVAL DATE (YYMMDD) 860905	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/SPAWAR	6a. DTIC REQUIRED	6b. GIDEP REQUIRED	
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement for this data included in the contract. 7.2 This DID may be applied in any contract and during any program phase. 7.3 This DID supersedes DI-A-2090A, DI-A-3025A, UDI-A-22050B, UDI-A-22052A, UDI-A-23960, DI-A-30024, and DI-A-30606. (cont. on page 2)				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER N3947	
10. PREPARATION INSTRUCTIONS 10.1 <u>Contract</u> - This data item is generated by the contract which contains a specific and discrete work task to develop this data product. 10.2 <u>Format</u> - This report shall be typewritten on standard size (e.g. 8 1/2" by 11") white paper, and securely stapled. Pages shall be sequentially numbered. All attachments shall be identified and referenced in the text of the report. The report shall be prepared in the contractor's format and shall be legible and suitable for reproduction. 10.3 <u>Content</u> - The report shall include: a. A front cover sheet which includes the contractor's name and address, the contract number, the nomenclature of the system or program, the date of the report, the period covered by the report, the title of the report, either the serial number of the report or the Contract Data Requirements List (CDRL) sequence number, the security classification, and the name of the issuing Government activity; b. Description of the progress made against milestones during the reporting period; c. Results, positive or negative, obtained related to previously-identified problem areas, with conclusions and recommendations; d. Any significant changes to the contractor's organization or method of operation, to the project management network, or to the milestone chart; e. Problem areas affecting technical or scheduling elements, with background and any recommendations for solutions beyond the scope of the contract; f. Problem areas affecting cost elements, with background and any recommendations for solutions beyond the scope of the contract; g. Cost curves showing actual and projected conditions throughout the contract; h. Any cost incurred for the reporting period and total contractual expenditures as of reporting date; i. Person-hours expended for the reporting period and cumulatively for the contract; j. Any trips and significant results; (cont. on page 2)				

7. APPLICATION/INTERRELATIONSHIP (Cont'd)

- 7.4 Paragraphs 10.3.f, 10.3.g, and 10.3.h herein should be tailored on DD Form 1423 when such cost data is already submitted through a sophisticated cost reporting system under the contract.
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10. PREPARATION INSTRUCTIONS (Cont'd)

- k. Record of all significant telephone calls and any commitments made by telephone;
- l. Summary of Engineering Change Proposal (ECP) status, including identification of proposed ECPs, approved ECPs, and implemented ECPs;
- m. Contract schedule status;
- n. Plans for activities during the following reporting period;
- o. Name and telephone number of preparer of the report;
- p. Appendixes for any necessary tables, references, photographs, illustrations, and charts.

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DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
2. TITLE Technical Report - Study/Services		1. IDENTIFICATION NUMBER DI-MISC-80508		
3. DESCRIPTION/PURPOSE 3.1 A technical report provides fully documented results of studies or analyses performed.				
4. APPROVAL DATE (YYMMDD) 880115	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T2137	6a. DTIC APPLICABLE X	6b. GIDEP APPLICABLE	
7. APPLICATION/INTERRELATIONSHIP 7.1 This data item description contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID supersedes DI-A-5029. 7.3 Defense Technical Information Center (DTIC), Cameron Station, Alexandria, VA 22314.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER G4291	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format.</u> (a) The report and all attachments shall be typewritten, or otherwise clearly lettered, and shall be duplicated using non-fading ink. (b) Text shall be prepared on standard letter size paper (8 1/2" X 11"). (c) When attachments are included, they shall be fully identified, referenced in the text, and folded to conform to the size paper used in the report. (d) Security classification and distribution markings shall conform to the requirements of the contract, purchase description and security requirements checklist, as applicable. 10.2 <u>Content.</u> (a) Title Page - Identifies the report by providing contract number, project name or purchase description title, task number, and reporting period. <div style="text-align: right;">(continued on page 2)</div>				
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Block 10. Preparation Instructions (Continued)

- (b) Table of Contents
- (c) Section I - Includes the following:
 - (1) Introduction
 - (2) Summary - A brief statement of results obtained from the analytic effort.
 - (3) Conclusions and their condensed technical substantiations.
- (d) Section II - A complete and detailed description of the analytic results which led to the conclusions stated in Section I above.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
2. TITLE TECHNICAL AND MANAGEMENT WORK PLAN		1. IDENTIFICATION NUMBER DI-MGMT-81117		
3. DESCRIPTION/PURPOSE 3.1 The Technical and Management Work Plan describes the contractor's plan to implement the Statement of Work (SOW) tasking provided via delivery order or task order.				
4. APPROVAL DATE (YYMMDD) 901219	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) ASOB-SEP-A	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID may be used on any contract which is delivery order oriented.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER A6003
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . The plan shall be submitted in a contractor devised and Government approved format which conforms to the following: 10.1.1 <u>Identification</u> . The plan shall identify the contractor's name, contract number, title and number of the delivery or task order, security classification of the plan, name of contract monitor, and the Government office issuing the tasking. 10.1.2 <u>Descriptive material</u> . The plan shall include descriptive material, system diagrams, sketches, photographs, tables, forms, graphs, worksheets, charts, drawings, etc., as required. 10.1.3 <u>Page size</u> . The plan shall be typewritten or printed on 8 1/2 x 11 inch paper. The pages shall be sequentially numbered and securely bound together. As necessary, graphic material may be one-way foldouts. All attachments shall be identified and referenced in the text. Each section and paragraph shall be numbered. 10.1.4 <u>Table of contents and index</u> . Plans of more than 30 pages in length shall contain a table of contents. <div style="text-align: right;">(Continued on Page 2)</div>				
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Block 10, Preparation Instructions (Continued)

10.1.5 Legibility. The document shall be legible and reproducible.

10.2 Content. The plan shall include information necessary to substantiate

the contractor's approach to completing the delivery or task order and information necessary for the Government to assess the soundness of the contractor's approach. The plan shall contain the following:

10.2.1 Organizational structure. The plan shall include a description of the contractor's organizational structure and assignment of functions, duties, and responsibilities which will be assigned in support of the tasking. Additionally, the plan shall identify the contractor's procedures, policies, and reporting requirements established to initiate, monitor, control, complete, and report on activities required of the delivery or task order.

10.2.2 Organizational interfaces. The plan shall describe all interfaces between the contractor and the Government and between the contractor and other contractors or subcontractors which are necessary to complete the assigned tasking. This shall include a description of the applicable responsibilities and functional relationships between those organizations.

10.2.3 Methodology. The plan shall include a narrative description clearly defining the technical approach (or method) including tools, standards, and procedures to be used by the contractor to accomplish the delivery or task order. All documentation, activity, or decisions required from the Government or other Government contractor shall be identified.

10.2.4 Personnel. The plan shall identify the names and types of personnel assigned to accomplish the delivery or task order. The plan shall show how the combination of people assigned to each task provides a sufficient knowledge or experience base for that task. This includes identifying any special education, training, experience, or skills of these individuals. Also, any special administrative support requirements shall be identified.

10.2.5 Security. The plan shall identify any special or unique security requirements resulting from the delivery or task order.

10.2.6 Schedule. The plan shall include a milestone chart(s) graphically depicting the schedule of events associated with the delivery or task order. The level of detail shall be sufficient to clearly show how each subtask shall be performed. This includes:

Block 10, Preparation Instructions (Continued)

- a. Contractor activities.
- b. Contractor deliverances (interim and final), including briefings (if required).
- c. Other program milestones as appropriate (including Government input in 10.2.3 above).
- d. Periodic milestones to allow adequate Government review of contractor progress.

10.2.7 Resources chart. The plan shall include a resources chart that graphically and numerically identifies the contractor's total planned manhour level of effort (LOE) and LOE by month for each subtask identified in the delivery or task order. Proposed monthly subtask manhours shall be broken out by labor category in support of the delivery or task order.

10.2.8 Travel. The plan shall include a list of the travel requirements that shall include the following for each trip:

- a. Company or Government agency visited.
- b. Location.
- c. Number of travellers by labor category.
- d. Trip duration.

10.2.9 Contractor requested data. The plan shall include the contractor's best assessment of any additional data required by the contractor. This list shall be as detailed as possible and shall include document titles, responsible Government organizations, and responsible Government contractors. The criticality of each data required shall be identified.

10.2.10 Deliverables. The plan shall include a brief description of the contents of each deliverable to be provided as a result of the delivery or task order.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
2. TITLE COMPUTER SOFTWARE SYSTEM DOCUMENT		1. IDENTIFICATION NUMBER DI-IPSC-80942		
3. DESCRIPTION / PURPOSE 3.1 The Document fully describes the requirements of a Software Program. The Program is specified in terms of modules, functions of the modules, and subfunctions. 3.2 The Document will be used to record the purpose of a software system and provide a breakdown of program modules and their individual functions.				
4. APPROVAL DATE (YYMMDD) 900208	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) A/AMSMC-MA	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION / INTERRELATIONSHIP 7.1 This DID contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 The document required by this DID will be used by government in-house employees or contractor personnel.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER A4885
10. PREPARATION INSTRUCTIONS 10.1 <u>General</u> . The Computer Software System Document shall outline the function(s) of the system and shall break the software down by major component or module. Each module will be further subdivided into functions, and the subfunctions, and the subfunctions of each function shall be described in this document. 10.2 <u>Format</u> . Format shall be as outlined below. 10.3 <u>Content</u> . The document shall cover the following: 10.3.1 <u>Section 1. Introduction</u> . a. <u>Purpose</u> . Address the purpose and intent of this document. b. <u>Scope</u> . Describe the scope that is intended by this document. 10.3.2 <u>Section 2. General Description</u> . a. <u>Components</u> . The functional components which the system supports shall be briefly described. b. <u>Information Transfer</u> . Outline the types of data transferred between system components. (Continued on Page 2)				
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Block 10, PREPARATION INSTRUCTIONS (continued)

c. Communication. Outline the methodology of communication between system components.

d. Module Description. Describe each major module of the system.

10.3.3 Section 3. Functional Requirements. The requirements of each of the major modules of the system shall be described in this section. This description shall include all formulae and algorithms use by these modules. Each major module shall be broken down by its subfunctions.

a. Modules. Each module should be covered within one level two header.

b. Each functional area that a module supports will be covered in a level three header. The function supported shall in general be broken down into subfunctional program elements.

c. Each subfunctional program element shall be described in a level four header.

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

1. TITLE TEST PROCEDURE		2. IDENTIFICATION NUMBER DI-NDTI 00603	
3. DESCRIPTION / PURPOSE 3.1 The test procedure identifies the step-by-step testing operations to be performed on items under going developmental, qualification, or acceptance testing. It identifies items to be tested, the test equipment and support required, the test conditions to be imposed, the parameters to be measured, and the pass/fail criteria against which the test results (continued on page 2)			
4. APPROVAL DATE (YYMMDD) 880601	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T2137	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract. 7.2 This DID is applicable to contracts requiring tests to be performed for the purpose of developmental or environmental evaluation, acceptance testing, and item qualification testing. 7.3 This DID supersedes DI-T-5248 and DI-T-5301			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER G4428	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format Requirements.</u> The test procedure shall be in the contractor's format on 8 1/2 x 11 inch paper. It shall be bound in such a manner that pages may be removed or inserted without damage or mutilation. 10.2 <u>Content requirements.</u> The test procedure shall contain the following: 10.2.1 <u>Front matter.</u> 10.2.1.1 <u>Cover and title page.</u> The following information shall be included on the cover and title page: a. Date of issue. b. Revision date (If applicable). c. Procedure document identification number. d. Contract number. e. Contractor's name and address. f. Type of procedure, including purpose (e.g., first article test, developmental evaluation, qualification, environmental (specify), acceptance, or other). g. Identification of the system, subsystem, or equipment to be tested. h. Security classification (if applicable) (continued on page 2)			
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Block 3. DESCRIPTION/PURPOSE

will be measured. The document is a compilation of individual test procedures for related elements of a system, subsystem, or equipment.

Block 10. PREPARATION INSTRUCTIONS (continued)

10.2.1.2 Record of changes. A record of change pages shall be included to provide for tracking of changes to the test procedures.

10.2.1.3 Table of contents. A table of contents is required when more than one test procedure is included in the test procedures document. It shall identify the page location of each procedure number, procedure title, and related equipment nomenclature.

10.2.2 Body of document. For each test procedure, the following information is required:

10.2.2.1 Procedure number. Each procedure shall have a unique number assigned to it.

10.2.2.2 Title of procedure. The title should relate to the purpose of the test.

10.2.2.3 Introduction. The following shall be addressed in the introduction:

10.2.2.3.1 Purpose of test. (As specified in the contract tasking document.)

10.2.2.3.2 System, subsystem, or equipment to be tested. The following identification information shall be provided:

- a. Nomenclature
- b. Model or part number.
- c. Type of test item (prototype, production item, laboratory model, etc.)
- d. Applicable specification.

10.2.2.3.3 Test requirements. Includes the following, each related to the prescribing contract requirement paragraph (specification, standard, plan, or work statement).

- a. Required tests, and parameters to be measured.
- b. Performance requirements, acceptance or compliance limits, and environmental criteria.

10.2.2.3.4 Referenced documents. A list by title, number, date, and source of those documents cited in the test procedure.

Block 10. PREPARATION INSTRUCTIONS

10.2.2.4 Required test equipment. Includes the following for each piece of test equipment required to perform the procedure:

- a. Nomenclature.
- b. Use of test equipment.
- c. Model Number (if applicable).
- d. Manufacturer (if mandatory).
- e. Accuracy and calibration requirements.
- f. Range or spectrum of measurements required.

10.2.2.5 Table of tests. This table lists each test performed under the procedure in the sequence it is to be performed, identified to the procedure paragraph and the related specification/contract requirement.

10.2.2.6 Step-by-step procedure. The following shall be included for each step of the test procedure:

- a. Test set-up diagrams, including test equipment connections.
- b. Input and output instrumentation points.
- c. Test item operating limits and test conditions to be imposed.
- d. Performance parameters to be measured.
- e. Step-by-step operations to obtain the required data.
- f. Caution and safety warnings as appropriate.

10.2.2.7 Data sheets. Data sheets shall be included with the procedure, or be separately attached at the end of all procedures. They shall provide for:

- a. Identification of item tested, including model and serial numbers.
- b. Recording of test measurements.
- c. Identification of required or objective performance values, with tolerances.
- d. Identification of applicable procedure paragraph.
- e. Date of test.
- f. Signature of technician or inspector performing the tests.

10.2.2.8 Support requirements. Any special support requirements would be included in this section, such as:

- a. Use of special facilities or test ranges.
- b. Personnel requirements (numbers, types, qualifications).
- c. Unusual electrical, hydraulic, pneumatic, etc. requirements.
- d. Support equipment requirements.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0186	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0186), Washington, DC 20503.				
1. TITLE			2. IDENTIFICATION NUMBER	
TEST/INSPECTION REPORTS			DI-NDTI-80809A	
3. DESCRIPTION / PURPOSE				
3.1 The test/inspection report is used to determine compliance with system requirements, performance objectives, specifications, or test/inspection plans; whether the tests/inspections are conducted at contractor, government or independent facilities.				
(Continued on page 2)				
4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
910325	F/AFSC-TE			
7. APPLICATION / INTERRELATIONSHIP				
7.1 This data item description (DID) is a broad consolidation of a number of superseded DIDs that specifies a uniform content and format to be used in the preparation of test/inspection reports covering test/inspections on systems, subsystems, components, parts, materials, processes, and equipments as applicable.				
(Continued on page 2)				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER	
			P6040	
10. PREPARATION INSTRUCTIONS				
10.1 Format requirements. The test/inspection report format shall be contractor selected consistent with the following requirements.				
10.1.1 Media. The test/inspection report shall be provided by electronic transmission or on either magnetic media or durable quality paper, and shall present the data in a clean and legible manner. The text and numeric data shall be capable of being typewritten or printed, using non-exotic typefaces, on 8 1/2 by 11 inch standard white paper. Photographs, pictorials, graphics, and drawings shall be presented in high contrast black and white or color. If the media is paper, black ink should be used on white bond paper, and the report shall be bound such that pages may be removed or inserted without damage or mutilation. The media shall be in the Computer Aided Logistics Support (CALS) format as specified in MIL-STD-1840.				
10.1.2 Format. The test/inspection report format shall present the data in an effective and logically organized arrangement. The text shall be single spaced and shall use correct English grammar, spelling, capitalization, and punctuation. Numerical data shall use Arabic numerals and the units of				
(Continued on page 2)				
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measure shall be identified and defined. Acronyms, codes, abbreviations, signs, and symbols shall be defined. Photographic, pictorial, graphic, and drawing formats may be used for purposes of illustration. Attachments, tables, figures, footnotes, and illustrations shall be identified and

BLOCK 3, DESCRIPTION/PURPOSE (Continued)

3.2 The report should document test/inspection results, findings, and analyses that will enable the government or contracting agency to evaluate and determine subsequent actions.

BLOCK 7, APPLICATION/INTERRELATIONSHIP (Continued)

7.2 This DID contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

7.3 This DID is applicable to contracts requiring tests/inspections to be performed for the purpose of developmental, operational, or environmental evaluation, acceptance or quality conformance inspection, and item qualification.

7.4 This DID should be tailored on the DD Form 1423 Contract Data Requirements List (CDRL) to the applicable program requirement, when requiring media prepared in the Computer Aided Logistics Support (CALS) format as specified in MIL-STD-1840A and its related specifications. This DID is applicable whenever success criteria and test/inspection methods have been prescribed (i.e., where there is a specification or comparable document). This Data Item Description is applicable for both flight and ground tests/inspections.

7.5 This DID is normally used for engineering test and evaluation, pre-qualification, qualification, and other developmental tests/inspections in the specifications as well as quick look, interim, and final summary reports of test/inspection results, and findings related to the completion of a program milestone period (such as the completion of demonstration/validation and the start of full scale development).

7.6 The requirements contained in the DID should be tailored consistent with the program phase and the contractual testing/inspection requirements.

7.7 This DID supersedes DID's DI-E-1150, DI-T-1780, DI-T-1787, DI-T-1906, DI-R-2057, DI-R-2063, DI-T-2072, DI-T-5329, DI-T-5426, DI-T-5439A, UDI-T-21332, UDI-T-23668, UDI-T-23790, DI-T-30720, DI-T-30736, DI-QCIC-80139, DI-QCIC-80140, DI-QCIC-80141, DI-NDTI-80604, DI-MISC-80654, DI-NDTI-80809, and DI-RELI-80939.

BLOCK 10, PREPARATION INSTRUCTIONS (Continued)

referenced in the text. Oversize pages shall be capable of being folded to the dimensions of the volume. Unless effective presentation would be degraded; the initial format arrangement shall be used for all subsequent submissions.

10.1.3 Reproduction. The test/inspection report shall be capable of being photographically reproduced in black on white copy sufficiently clear and sharp for further reproduction. Ditto, hectograph, color or reproduction processes not reproducible photographically shall not be required for reproduction of the test/inspection report.

10.2 Content requirements. The test/inspection report shall contain the following information:

10.2.1 Cover and title page. The following information shall appear on the outside front cover and title page:

- a. Report date.
- b. Report number (contractor's or government, if assigned)
- c. Contract number/CLIN number or sequence number (if applicable)
- d. Contractor's name and address, and commercial and government entity (CAGE) code.
- e. Type of test/inspection (e.g., first article, quality conformance, developmental evaluation, qualification, environmental (specify); acceptance, or other).
- f. Identification (e.g., national stock number (NSN), nomenclature, model/part/serial number) of item tested/inspected.
- g. Name and address of test/inspection facility.
- h. Date or period of test/inspection.
- i. Name and address of requiring government activity.
- j. Security classification, downgrading and declassifying information (if applicable)

10.2.2 Table of contents. The table of contents shall identify the following:

- a. The title and starting page of each major section, paragraph, and appendix of the report.
- b. The page, identifying number, and title of each illustration (e.g., figure, table, photograph, chart, and drawing).

10.2.3 Introduction. The introduction shall include the following information:

10.2.3.1 Purpose of the test/inspection. The specific purpose of the test/inspection as specified in the contract tasking document if the contract does not identify a specific test/inspection purpose, the contractor's purpose shall be stated.

10.2.3.2 Item tested/inspected. Complete identification of the item tested/inspected including the following:

- a. Nomenclature.
- b. National stock number (NSN).
- c. Model/part/serial number.
- d. Type of item (e.g., prototype, production item, laboratory model).
- e. Serial or lot number.
- f. Applicable engineering changes.
- g. Production item specification (if applicable).
- h. Date of manufacture.

10.2.3.3 Test/inspection requirements. Complete identification of the test/inspection requirements correlated to contractual requirements and the requirements documentation, including the following:

- a. Required test/inspection parameters measured.
- b. Performance requirements, acceptance or compliance limits, and environmental criteria.

10.2.4 Summary. Complete test/inspection report summary including the following:

- a. A brief discussion of the significant test/inspection results, observations, conclusions, and recommendations covered in greater detail elsewhere in the report.
- b. Proposed corrective actions and schedules for failures or problems encountered.
- c. Identification of deviations, departures, or limitations encountered, referenced to the contract requirements.
- d. Tables, graphs, illustrations, or charts as appropriate to simplify the summary data.

10.2.5 Reference documents. Complete identification of all documents referenced in the test/inspection report including the following (as applicable):

- a. Prior test/inspection reports on the same item.
- b. Test/inspection plan and procedure documents.
- c. Requirement specifications and standards.
- d. Prior certifications of compliance.
- e. Contractor's file designation where test/inspection records are maintained.
- f. Input parameters used.

The applicable issue of the documents cited therein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.

10.2.6 Body of report. The body of the test/inspection report shall be as follows:

10.2.6.1 Test equipment identification. Complete identification for each item of test equipment used in the test/inspection including the following:

- a. Nomenclature.
- b. Model number.
- c. Serial number.
- d. Manufacturer.
- e. Calibration status.
- f. Accuracy data.
- g. Comments (if applicable).

10.2.6.2 Test/inspection facility installation and set-up. Drawing, illustrations, and photographs may be used for clarification. Complete description of the physical set-up (e.g. item, test/inspection facility, and equipment used in conducting the test/inspection) to include the following:

- a. Location/orientation of item.
- b. Location/orientation/settings of test equipment and instrumentation.
- c. Location/orientation/settings of sensors and probes.
- d. Location/orientation of interconnections, cables, and hook-ups.
- e. Electrical power, pneumatic, fluidic, and hydraulic requirements.

10.2.6.3 Test/Inspection procedures. Complete description of the procedures used in conducting the test/inspection to include the following:

- a. Item selection and inspection that verified suitability for test/inspection.
- b. Summarized sequence of testing/inspection steps, including a description of how the item was operated during the test/inspection, and any control conditions imposed.
- c. Data reduction techniques employed.

10.2.6.4 Test/inspection results and analysis. A copy of all test/inspection results and analysis to include the following:

10.2.6.4.1 Recorded data. The actual recorded data (e.g., log book entries, oscillographs, instrument readings, and plotter graphs). If the recorded data is extensive, provide it in an appendix.

10.2.6.4.2 Test/inspection results. Identification of all test/inspection results to include the following:

- a. Matrices comparing results achieved against test/inspection objectives or requirements.
- b. A discussion of these matrices as to their significance, and how they compare to any prior tests/insptections.
- c. Calculation examples.
- d. Tabulation of the recorded data (reference 10.2.6.4.1) reduced the related test/inspection procedure generating the data and test requirements.

- e. Discussion of anomalies, deviations, discrepancies or failures, including their impact, causes, and proposed corrective actions. The discussion shall address discrepancies between design requirements and the tested/inspected configuration.

10.2.6.5 Conclusions. Test/inspection conclusions distinguish between objective and subjective to include the following:

- a. The effectiveness of the test/inspection procedures in measuring item performance.
- b. The success or failure of the item to meet required test/inspection objectives.
- c. The need for repeat, additional, or alternative testing/inspection.
- d. The need for item re-design or further development.
- e. The need for improved test/inspection procedures, techniques, or facilities.
- f. The adequacy and completeness of the test/inspection requirements.

10.2.6.6 Recommendations. Recommendations appropriate to the test/inspection results and conclusions including the following:

- a. Acceptability of the item tested/inspected (pass or fail).
- b. Additional testing/inspection required.
- c. Redesign required.
- d. Problem resolution.
- e. Test/inspection procedure or facility improvements.
- f. Disposition of items tested/inspected.
- g. Documentation changes required.
- h. Testing/inspection improvements.

10.2.7 Authentication. The following certifications shall be included, as applicable:

10.2.7.1 Authentication of test/inspection results. A statement that the test/inspection was performed in accordance with applicable specifications, test/inspection plans, and procedures, and that the results are true and accurate. The authentication shall include the signature of the contractor personnel that performed the test(s)/inspection(s). Any government witnesses, and a contractor representative authorized to make such certification.

10.2.7.2 Authentication of prior validation. A statement identifying those requirements not tested/inspected or measured that were previously validated. Include identification of the date and method employed for such validation (e.g., prior test/inspection, analytical verification, equivalent item, etc.). The authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

10.2.7.3 Authentication of acceptability. A statement that the item tested/inspected either passed or failed item acceptability requirements as delineated in applicable specifications. This authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

10.2.8 Appendices. Appendices shall be used to append detailed test/inspection data, drawings, photographs, or other documentation too voluminous to include in the main body of the report. This includes referenced documentation not previously provided by the Government, and test/inspection reports from any associated test/inspection activity that may have performed some of the testing/inspecting requirements.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. TITLE Operation and Maintenance Instructions for Research and Development (R&D) Equipment			2. IDENTIFICATION NUMBER DI-MISC-81414	
3. DESCRIPTION / PURPOSE 3.1 These instructions provide government personnel necessary operating, diagnostic, and repair procedures for using and maintaining R&D equipment supporting test assets.				
4. APPROVAL DATE (YYMMDD) 940801	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/46TW-TSTD	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION / INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract. 7.2 This DID is applicable only to the R&D equipment not destined for the Air Force inventory. 7.3 This DID supersedes DI-S-30599.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER F7051
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor format is acceptable. 10.2 <u>Content</u> . Content shall be sufficient for technicians to operate the equipment and repair and replace components. The content shall include the following: <ul style="list-style-type: none"> a. Complete operation and calibration instructions including safety hazards, if any. b. Theory of operation, diagnostic tests, repair, and preventive maintenance. c. Illustrations, diagrams, and schematics necessary to show interconnections between unit and associated equipment and assembly and installation of the unit and its components. d. A parts list including commercial part numbers. e. A test point list with normal voltages, currents, and waveforms. f. A list of referenced documents or illustrations. 				
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.				

DATA ITEM DESCRIPTION			Form Approved OMB No 0704-0188	
1. TITLE SOFTWARE DEVELOPMENT SUMMARY REPORT		2. IDENTIFICATION NUMBER DI-MCCR- 80902		
3. DESCRIPTION/PURPOSE 3.1 This report collects data pertaining to effort and schedule, computer program size, function by functional element, programming language, characteristics, and complexity.				
4. APPROVAL DATE (YYMMDD) 890926	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/Y231	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION/INTERRELATIONSHIP 7.1 This data item descriptionn (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requiremnt as delineated in the contract. 7.2 This report is designed to collect data at several stages during the software review development. 7.3 This DID supersedes DI-F-5612.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER G4833
10. PREPARATION INSTRUCTIONS 10.1 <u>General Information</u> . The report is required for each task consisting of 5000 or more Source Lines of Code (SLOC) within the project. SLOC consists of all executable statements, inputs/outputs, format statements, data declaration statements, deliverable job control language statements, and procedure oriented language. It does not include program comments. These reports are submitted at several major milestones as specified in the CDRL and at major contract modifications. Therefore a number of questions request project size, schedule and level of effort data in the form of "estimated actual". This implies that at the time of preparation of the report, if the data hasn't become available in certainty, then estimated data is to be provided; once the actual data is available, then such data is to be provided. For example, for the question which addresses the date of achievement or the level of effort at a certain milestone, the estimated data should be reported for reports prior to the milestone, and actual data should be reported thereafter. 10.2 <u>Format</u> . The report may be in the contractor's format. 10.3 <u>Content</u> . 10.3.1 <u>Title Page</u> . The title page shall contain the following information: <div style="text-align: right;">(continued on Page 2)</div>				
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

Block 10, PREPARATION INSTRUCTIONS (Cont'd)

10.3.2 Project Title. The highest level of the development contract. It includes the compilation of all software systems being developed.

10.3.3 Contractor/Subcontractor Name. The contractor or subcontractor name as appropriate.

10.3.4 Subsystem Information.

10.3.4.1 Subsystem Title and Description. The software subsystem is the compilation of all computer programs which must interrelate to support a specific operation. A project may consist of multiple software subsystems (e.g. one supporting the prime mission equipment; another supporting the training package, a third supporting test and evaluation, etc.). However, each subsystem would run on a separate processor.

10.3.4.2 Development Computer Name and Model Number. Shall be included at the subsystem level except in the case when the subsystem crosses machine bounds. In that case, this information should be included at the program level. Reference to the section in the document is appropriate when the description is lengthy.

10.3.4.3 Development Computer CPU Size. Shall be included at the subsystem level except in the case when the subsystem crosses machine bounds. In that case this information should be included at the program level.

*NOTE: The size of the CPU refers to the size of the data bus used in the computer.

10.3.4.4 Host Computer Name and Model Number. Shall be included at the subsystem level except in the case when the subsystem crosses machine bounds. In that case this information should be included at the program level.

10.3.4.5 Host Computer CPU Size. Shall be included at the subsystem level except in the case when the subsystem crosses machine bounds. In that case this information should be included at the program level.

*NOTE: The size of the CPU refers to the size of the data bus used in the computer.

10.3.5 Subsystem Schedule and level of Effort. Create a matrix and enter the estimated/actual DATE OF ACHIEVEMENT and the estimated/actual LEVEL OF EFFORT in man-hours expended for each ACTIVITY/MILESTONE as specified in the contract. Also enter the estimated/actual DATE OF ACHIEVEMENT and the estimated/actual LEVEL OF EFFORT in man-hours expended while preparing each required DOCUMENT. Provide the estimated or actual data as appropriate in accordance with the instructions at the beginning of this document. (Item 10.1)

10.3.5.1 Comments. Provide an explanation for any gaps or unusual circumstances which may affect the schedule.

10.4 Computer Program Information.

10.4.1 Computer Program Name and Description. Reference to the section in the document is appropriate when the description is lengthy.

10.4.2 Computer Program Language(s). Enter each programming language which is utilized in the computer program and its percent of the SLOC. These percentages should sum to 100 percent. Expand the list as necessary to accommodate each programming language that is utilized. This data may be included in the SLOC Matrix. (See 10.3.3)

Block 10 Preparation Instructions (Cont'd)

10.4.3 Maximum Intricacy of Code in Computer Program. Create a matrix and enter, in percentages, the applicable code that identifies the intricacy characteristics of the code within the type of operations that most closely resembles the computer program. Use the tables provided to generate the matrix. After the information has been derived it should be delivered in the earliest submission of this report. (i.e., If this information is available at Preliminary Design Review (PDR), it will be submitted during PDR.)

10.4.3.1 Control Operations (see Table II).

10.4.3.2 Computational Operations (see Table III).

10.4.3.3 Device-Dependent Operations (see Table IV).

10.4.3.4 Data Management Operations (see Table V).

10.4.4 Schedule and Level of Effort. Enter the estimated/actual date of achievement for each activity/milestone and the estimated/actual level of effort in man-months for each activity as specified in the report. Enter the estimated/actual date of achievement for each required document and the estimated/actual level of effort in man-months expended for preparing (preparation time and thought required to prepare the document) the required document. Provide the estimated or actual data as appropriate in accordance with the instructions at the beginning of this document (Item 10.1).

10.4.4.1 Comments. Shall include an explanation for any gaps or unusual circumstances which may affect the schedule.

10.5 Component Information.

10.5.1 Component Name and Description. Reference to section in the document is appropriate when description is lengthy.

10.5.2 Maximum Intricacy of Code in Component. Create a matrix and enter, in percentages, the amount of applicable code which identifies the intricacy characteristics of the code within the type of operations that most closely resembles the computer program component. Use the tables provided to generate the matrix. This information should be delivered in the earliest submission of this report, after the information has been derived. (i.e., If this information is available at PDR, it will be submitted during PDR.)

10.5.2.1 Control Operations (see Table II).

10.5.2.2 Computational Operations (see Table III).

10.5.2.3 Device-Dependent Operations (see Table IV).

10.5.2.4 Data Management Operations (see Table V).

10.6 Unit Information.

10.6.1 Unit Name and Description. Reference to section in the document is appropriate when description is lengthy.

Block 10, PREPARATION INSTRUCTIONS (Cont'd)

10.6.2 Maximum Intricacy of Code in Unit. Create a matrix and enter, in percentages, the amount of applicable code that identifies the intricacy characteristics of the code within the type of operations that most closely resembles the unit of code. Use the tables provided to generate the matrix. After the information has been derived it should be delivered in the earliest submission of this report. (i.e., If this information is available at PDR, it will be submitted during PDR.)

10.6.2.1 Control Operations (see Table II).

10.6.2.2 Computational Operations (see Table III).

10.6.2.3 Device-Dependent Operations (see Table IV).

10.6.2.4 Data Management Operations (see Table V).

10.7 Source Lines of Code Down to the Unit Level. Consists of all executable statements, inputs/outputs, format statements, data declaration statements, deliverable job control language statements, and procedure oriented language statements, but does not include program comments. Enter, at the unit level, the SLOC used in this subsystem. See Figure 1 for matrix example. This information could also include other items as necessary (i.e., Routine name, etc...). Items in this matrix should be entered as they become available (PDR, Critical Design Review (CDR), CCUT, etc.), otherwise TBSs will be entered.
(*NOTE: SLOC numbers will include rebuilt lines of code)

Block 10, Preparation Instructions (Cont'd)

WAS						
Source Lines of Code (SLOC) Down to the Unit Level						
<u>prog_</u> <u>name.</u>	<u>comp_</u> <u>name.</u>	<u>unit_</u> <u>name.</u>	<u>min</u> <u>(SLOC)</u>	<u>Likely</u> <u>(SLOC)</u>	<u>max</u> <u>(SLOC)</u>	<u>actual</u> <u>(SLOC)</u>
CONTROL	CONTROLLER		1100	1700	2300	TBSL
			TBSL	TBSL	TBSL	TBSL
		LOGIN	TBSL	TBSL	TBSL	TBSL
		INIT/TERM	TBSL	TBSL	TBSL	TBSL
		TOP	TBSL	TBSL	TBSL	TBSL
		USER/AUTH	TBSL	TBSL	TBSL	TBSL
COMMS	CONNECT		1100	1700	2300	TBSL
			TBSL	TBSL	TBSL	TBSL
		CONN	TBSL	TBSL	TBSL	TBSL
		APPL	TBSL	TBSL	TBSL	TBSL
ORDER	ENTRY		1625	2500	3375	TBSL
			TBSL	TBSL	TBSL	TBSL
		INITIATE	TBSL	TBSL	TBSL	TBSL
		BUILD	TBSL	TBSL	TBSL	TBSL
	SUBMIT		TBSL	TBSL	TBSL	TBSL
		PAPER	TBSL	TBSL	TBSL	TBSL
		ELEC	TBSL	TBSL	TBSL	TBSL
		LIST	TBSL	TBSL	TBSL	TBSL
		ON LINE	TBSL	TBSL	TBSL	TBSL
		OFF LINE	TBSL	TBSL	TBSL	TBSL
	MNGMT		TBSL	TBSL	TBSL	TBSL
		UR CC	TBSL	TBSL	TBSL	TBSL
		QUERY	TBSL	TBSL	TBSL	TBSL
		BCK RECV	TBSL	TBSL	TBSL	TBSL
		ARCHIVE	TBSL	TBSL	TBSL	TBSL
		PRT ORD	TBSL	TBSL	TBSL	TBSL
etc.....						

Figure 1. Example of SLOC Matrix

Block 10, PREPARATION INSTRUCTIONS (Cont'd)

10.8 New versus Rebuilt Lines of Code: If code for this subsystem is rebuilt from previously existing programs, rather than newly designed, than a matrix (see Figure 2) should be created. Enter on a unit level, the minimum most likely, and maximum amount of Lines of Code that came from: original, essentially unmodified, and significantly modified SLOC on a unit level.
 *NOTE - (See Table I for supporting definitions).

Prg_ name	Cmp_ name	Unt_ name	Minimum			Likely			Maximum		
			orig	unmod	mod	orig	unmod	mod	orig	unmod	mod

Figure 2. New vs Rebuilt Source Lines of Code

10.9 Readjustment Level of Effort. Enter, on a program level, the actual level of effort expended in the High Level Design (HLD) and Detailed Design (DD) Phases, Implementation Phase, and the Detailed Test & Evaluation (DT&E) Phase, due to readjusting the existing code to accommodate the rebuilt code. The level of adjustment effort which is necessary to accommodate rebuilt code depends on the configuration of the modification within the existing code. If the modification is embedded throughout the existing code then the level of effort due to adjustments is likely to be more extensive than if the modification affects only one part of the code with few outside interfaces. See Figure 3 for an example matrix of this data.

Readjusted Level of effort by program.				
Program name	Development Phase			
	HLD	DD	SI&T	DT&E

Figure 3. Sample Readjustment Level of Effort Matrix

Table I Supporting Definitions

New vs Rebuilt Source Lines of Code

<u>Original Source Lines of Code</u> :	New lines of code designed and implemented completely from scratch specifically for SDNS.
<u>Unmodified Source Lines of Code</u> :	Lines of code originally designed and written for FSVS, which will be transferred with <u>little or no modifications</u> to SDNS.
<u>Modified Source Lines of Code</u> :	Lines of code, originally designed and written for FSVS, which will be <u>significantly</u> modified and transferred to SDNS.

Block 10, PREPARATION INSTRUCTIONS (Cont'd)

Table II. Control Operations Codes

<u>Code</u>	<u>Characteristics</u>
A	Straight-line code with a few non-tested structured programming operators: DOs, CASEs, IF-THEN-ELSE, Simple Predicates.
B	Straight forward nesting of structured programming operators. Mostly simple predicates.
C	Mostly simple nesting. Some inter-module control. Decision tables.
D	Highly nested structured programming operators. Mostly simple predicates.
E	Re-entrant and recursive coding. Fixed-priority interrupt handling.
F	Multiple resources scheduling with dynamically changing priorities. Microcode level control.

Table III. Computational Operations Codes

<u>Code</u>	<u>Characteristics</u>
A	Evaluation of simple expressions. For example, $A=B+(D-E)$
B	Evaluation of moderate level expressions. For example, $D=\text{SQRT}(B**2-4.*A*C)$
C	Use of standard math and statistical routines. Basic matrix and vector operations.
D	Basic numerical analysis: multivariate interpolation, ordinary differential equations. Basic truncation, round-off concerns.
E	Difficult but structured numerical analysis: near-singular matrix equations, partial differential equations.
F	Difficult and structured numerical analysis: highly accurate analysis of noisy, stochastic data.

Block 10, PREPARATION INSTRUCTIONS (Cont'd)

Table IV. Device-Dependent Operations Codes

<u>Code</u>	<u>Characteristics</u>
A	Simple read, write statements with simple formats.
B	No cognizance needed of particular processor or Input/Output (I/O) device characteristics. I/O done at GET/PUT level. No cognizance of overlap.
C	I/O processing, includes device selection.
D	Operations at physical I/O level (physical storage translations; seeks, reads, etc.). Optimize I/O overlap.
E	Routings for interrupt diagnosis, servicing, masking. Communication line handling.
F	Device timing-dependent coding, micro-programmed operations.

Table V. Data Management Operations Codes

<u>Code</u>	<u>Characteristics</u>
A	Simple arrays in main memory.
B	Single file subsetting with no data structure changes, no edits, no intermediate files.
C	Multifile input and single file output. Simple structural changes, simple edits.
D	Special purpose subroutines activated by data stream contents. Complex data restructuring at record level.
E	A generalized, parameter-drive file structuring routine. File building, command processing search optimization.
F	Highly coupled, dynamic relational structures. Natural language data management.

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
1. TITLE COMPUTER PROGRAM END ITEM DOCUMENTATION		2. IDENTIFICATION NUMBER DI-IPSC-80590A		
3. DESCRIPTION/PURPOSE 3.1 Computer program end item documentation defines the requirements for documentation to accompany the delivery of software end items.				
4. APPROVAL DATE (YYMMDD) 940112	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T213	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for tech data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID is applicable for contracts which specify delivery of software developed for the Government. 7.3 This DID supersedes DI-IPSC-80590.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER G6981	
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . The documentation shall be in contractor format. 10.2 <u>Content</u> . 10.2.1 <u>Computer listings</u> . A program listing for each computer program in the assembler and compiler language as specified in the contract. These listings shall include: 10.2.1.1 <u>Source programs</u> . A listing containing comments in sufficient detail to allow for easy modification of the program and furnish insight into the relationship of a section to the operation of the total system. 10.2.1.2 <u>Object programs</u> . Listing of all object programs in the same format as the source programs. Listings shall be annotated to allow for easy reference or comparison to the source coding for that particular program. 10.2.1.3 <u>Executable programs</u> . All executable programs and databases shall be developed on the media as specified by the DD Form 1423.				
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
<p>Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p>				
1. TITLE			2. IDENTIFICATION NUMBER	
Product Drawings and Associated Lists			DI-DRPR-81000	
3. DESCRIPTION/PURPOSE				
<p>3.1 Product Drawings and associated lists provide engineering data to support competitive procurement and maintenance for items substantially identical to original items. These drawings represent the highest level of design disclosure.</p>				
4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
890911	DO			
7. APPLICATION/INTERRELATIONSHIP				
<p>7.1 This Data Item Description (DID) contains the format and content preparation instructions for Product Drawings and associated lists resulting from the work task described by 3.6.3 of MIL-T-31000.</p> <p>7.2 This DID is applicable to the acquisition of military systems, equipments and components. It is intended for acquiring drawings and associated lists</p> <p>(Continued on Page 2)</p>				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER	
			D4816	
10. PREPARATION INSTRUCTIONS				
<p>10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and the dates of applicable amendments and revisions, shall be as cited in the contract or purchase order.</p> <p>10.2 <u>General.</u> Product drawings and associated lists shall meet the requirements of MIL-T-31000 and the DD Form 2554-1 incorporated into the contract or purchase order. Product drawings and associated lists shall provide the design disclosure information necessary to enable a manufacturer of similar products at the same of similar state of the art to produce and maintain quality control of item(s) so that the resulting physical and performance characteristics duplicate those of the original design. These drawings shall:</p> <ul style="list-style-type: none"> a. Reflect the end-product at its current level of design maturity. b. Provide the engineering data for Logistics Support products. c. Provide the necessary data to permit competitive acquisition of items identical to the original items(s). <p>(Continued on Page 2)</p>				
11. DISTRIBUTION STATEMENT				
DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

Block 7. APPLICATION / INTERRELATIONSHIP (Continued)

7.2 (Cont'd) primarily at the end of Full Scale Development and during subsequent phases of the DoD materiel life-cycle.

7.3 It is not intended that all the requirements contained herein should be applied to every program. This DID should be tailored to the minimum data requirements of the applicable contract or purchase order.

7.4 This DID supersedes DI-E-7031 and DI-CMAN-80779.

7.5 This DID is related to DI-DRPR-81001, DI-DRPR-81002, and DI-81003.

Block 10. PREPARATION INSTRUCTIONS (continued)

10.3 Format. Product Drawings and associated lists shall be in either the contractor's format or Government's format as specified on the DD Form 2554-1 incorporated into the contract or purchase order.

10.4 Content. Product drawings and associated lists shall conform to the requirements of DOD-STD-100. They shall document directly or by reference the following:

- a. Details of unique processes, i.e. not published or generally available to industry, when essential to design and manufacture.
- b. Performance ratings.
- c. Dimensional and tolerance data.
- d. Critical manufacturing processes and assembly sequences.
- e. Toleranced input and output characteristics.
- f. Diagrams.
- g. Mechanical and electrical connections.
- h. Physical characteristics, including form and finish.
- i. Details of material identification, including heat treatment and protective coatings.
- j. Inspection, test and evaluation criteria.

- k. Equipment calibration requirements.
- l. Quality assurance requirements.
- m. Hardware marking requirements.
- n. Requirements for reliability, maintainability, environmental conditioning, shock and vibration testing and other operational or functional tests.
- o. Vendor substantiation data when required by the contract or purchase order.

10.5 Item definition. All parameters required to define each unit, assembly, subassembly, part or material shall be presented on the applicable drawing. This includes data such as:

- a. All necessary mechanical dimensions to fully define fabrication, acceptance, interface or installation of the item depicted.
- b. All necessary electrical parameters to fully define fabrication, acceptance, interface or installation of the item depicted.
- c. All other necessary physical parameters to fully define fabrication, acceptance, interface or installation of the item depicted, i.e., weight, pressure, viscosity, etc.
- d. All necessary environmental conditions which units, assemblies, subassemblies, parts and materials must meet to perform effectively in the end item, such that the end item will meet its specification requirements.

10.6 CAGE code and document numbers. Product Drawings and associated lists will be identified with the contractor's CAGE code and contractor document numbers or with a Government CAGE code and document numbers as specified in the DD Form 2554-1 incorporated in the contract or purchase order.

10.7 Selection of drawings. The types and quantity of drawings required will vary according to the complexity of the contract end item. The DD Form 2554-1 incorporated in the contract or purchase order will specify whether the contractor or the Government is responsible for selecting the types and quantities of drawings and lists.

10.8 Limited rights-in-data items. Product Drawings for items for which the government does not have unlimited rights in data shall specify the form, fit and function requirements of the item and conform to 200.4 of DOD-STD-100.